

ABSTRACT OF THE DISCLOSURE

A valve assembly for the reciprocating compressors, elements of which are easily assembled into a single body, and which reduces impact and noise caused by an operation of a reed valve, thus allowing a silent operation of the reciprocating compressors. The valve assembly includes an exhaust hole plate having an exhaust hole, a reed valve plate having a reed valve, a stopper plate having a stopper, and a pressure unit formed on a surface of a cylinder head. The exhaust hole plate, the reed valve plate and the stopper plate are assembled with the cylinder together with the cylinder head when the cylinder head is mounted to the cylinder. The stopper is bent at a junction end thereof at a predetermined angle of inclination, so that a free end of the stopper is raised toward the cylinder head. The free end of the stopper is bent toward the cylinder head, thus providing an elastic support part. The pressure unit includes a first pressure projection to compress the junction end of the stopper, a second pressure projection to compress the elastic support part of the stopper, and a third pressure projection to compress an intermediate point of the stopper between the junction and free ends. The stopper is thus supported while being bent into a bow shape at a position between the cylinder head and the exhaust hole plate.